

This Information Sheet summarises the arrangements that Colleges / Professional Services must put in place to ensure no harm arises from the use of pressure systems. The document should be read in conjunction with the University's Safe Use of Pressure Systems Policy, developed to ensure compliance with the Pressure Systems Safety Regulations.

NOTIFIABLE OR NOT?

To help determine if a pressure system is notifiable to the University Insurance Officer the following examples are provided. The PSR1 Form should be used to notify details to the Insurance Officer:

Example 1



A small air (fresh) compressor with a Safe Working/Operating Pressure of 120 Psi and a Vessel with a 2 Litre Capacity.

 $120 \text{ Psi} \div 14.504 \text{ (bar)} = 8.27 \text{ bar}$

8.27 bar x 2 (litre capacity) = 16.5 Bar/Litre

<u>NOT NOTIFIABLE</u> to the Competent Engineer but local recorded, inspections required of the safety features and testing of the pressure relief valve (see safety critical device information on the H&S Website).

Example 2

Round Steriliser Drum (medical sterilisation), often found within cell biological laboratories.

The Steriliser operates by using steam to kill bacteria. Steam above atmospheric pressure dictates that the Unit is <u>NOTIFIABLE</u>. Use Form PSR1.

Note: All steam systems (under nominal or greater pressure) should be notified using the PSR1 Form.



Example 3

	AIR C	OMPRESSOR	
Model No. TA-TD2540HP	Voltage 240V	Hz 50	Air Displacement 196L/Min.
Amp 8	Phase 1	Stage 1	Free Air Displacement 125L/Min.
Tank/Litre 40	Duty Cycle 50%	Work Pressure 115PSI	Date Manufactured 07-2009
TRACKING NO.:	13346-0	829	

40 Litres Capacity x 7.9 bar (115 Psi ÷ 14.504)

= 316 Bar/Litres and notifiable using Form PSR1.

SUMMARY OF PROCESS

NEW PRESSURE SYSTEMS

Purchase systems from reputable EEA / EU suppliers. Systems must have a Certificate of Conformity and CE Mark

Notify the Insurance Officer as per Section 6 of the Safe Use of Pressure Systems Policy

If system to be linked to existing building services contact Property & Campus Services (PACS)

NEVER use a system until:

- System confirmed to be in safe working order
- A Written Scheme of Examination (WSE) is produced (if applicable)
- The Safe Operating Limit is displayed
- Relevant documents are received eg Safe Operating Procedures, training / maintenance requirements

ADDITIONAL: TRANSPORTABLE GAS CYLINDERS

- Minimum quantities to be held
- · Cylinders to be stored safely and securely
- Flashback Arrestors to be fitted to acetylene cylinders
- Only trained persons to move and / or connect gas cylinders and regulators

PRESSURE SYSTEMS IN USE

Restrict operation / movement / connection of systems to trained and / or authorised staff and students

Nominated Person to:

- Display and maintain Authorised Users List, if required
- Ensure systems are inspected, tested, maintained, examined by Competent Engineer or Technical Person as per WSE and / or manufacturer's requirements
- Accompany Competent Engineer / Technical Person during visits, as appropriate
- Ensure modifications / repairs are carried out by a Technical Person with modifications notified to the Insurance Officer and PACS, where required
- Check Safe Operating Limits and Examination Labels are affixed, completed and legible
- Ensure systems are not used if out of inspection date or faulty with others notified if the system impacts on their activities
- Maintain documents eg maintenance records, User Log Books, Engineer's Reports, regulator replacements, Safe Operating Procedures, WSE

ADDITIONAL: TRANSPORTABLE GAS CYLINDERS

- Cylinders / regulators sourced from a reputable supplier
- Regulators and associated pipework to be inspected with a 5-year renewal programme (unless otherwise indicated) established for College / Service owned regulators
- Specific rules apply if transporting gas cylinders in vehicles

REDUNDANT PRESSURE SYSTEMS

Must be disposed of / decommissioned by an appropriate person / supplier. This includes empty gas cylinders which usually can be returned to the supplier.

PACS may also need to be notified if a system requires dismantling from the infrastructure eg isolations.

Please inform the Insurance Officer of any system notified under *Section 6* if no longer in use.

NOTE:

As per Section 6 the Nominated Person must notify the Insurance Officer of new, redundant or modified systems using the (PSR1 Form). They must also ensure the following label (available from H&S) or suitable alternative is affixed and completed by the Competent Engineer

ASSET ID:			
ASSET ID:			
BU ID:			
DATE: BY:			